

### 3. DEFINITIONS

3.1 Definitions of terms. Definitions of terms used in this document shall be as specified in Federal Standard (FED-STD)-1037. Those definitions unique to information systems, and not defined in FED-STD-1037, are provided in this section.

Functional profiles: DoD functional profiles are defined using Government Open Systems Interconnection Profile (GOSIP) protocols and ISO/IEC TR 10000. A functional profile is defined by a combination of base standards necessary to support a specific information transfer function. A functional profile once defined standardizes all options and other variations allowed by the base standards. It also provides for the development of uniform, internationally recognized tests. Further, it ensures interoperability between different network elements and terminal equipment that implement a specific profile.

Generic flow control: Bit sequence contained in the Asynchronous Transfer Mode (ATM) cell header to assist the user facility in controlling the flow of traffic into the network in order to support different quality of service (QOS).

Local-network elements: Local-network elements are the elements that make up a base information transfer utility for strategic users or a tactical information transfer utility for tactical users. They include such elements as circuit and packet switches and transmission equipment.

Reference point A: The interface between the subscriber-network elements and the local-network elements.

Reference point B: The interface between the local-network elements and the wide-network elements.

Reference point B (NATO): The interface between U.S. network elements and NATO network elements.

Strategic user: A person, organization, or other entity (including a computer or computer system) not assigned to a combat unit that employs the services provided by a telecommunications system, or by an information processing system, for transfer of information to others.

Subscriber-network elements: Elements such as terminal equipment, end systems, intermediate systems, local-area networks, metropolitan-area networks, and radio networks.

Tactical user: A person, organization, or other entity (including

a computer or computer system) assigned to a combat unit that employs the services provided by a telecommunications system, or by an information processing system, for transfer of information to others.

Virtual Channel Indicator (VCI): Defines the explicit cell channel identification at the user-to-network interface (UNI) and network-to-node interface (NNI).

Virtual Path Indicator (VPI): Defines the explicit cell path identification at the UNI and NNI.

Wide-network elements: Elements, such as circuit switches, packet switches, and transmission equipment, that form the Defense Communications System (DCS) and PSTNs.

### 3.2 Acronyms and abbreviations used in this standard

AAL	ATM adaptation layer
ACSE	associated control service elements
A-D	analog-to-digital
ADPCM	adaptive differential pulse-code modulation
AFI	authority and format identifier
AJ	anti-jam
ALE	automated link establishment
ANSI	American National Standards Institute
ASCII	American Standard Code for Information Interchange
ASN.1	abstract syntax notation 1
ATM	asynchronous transfer mode
AUI	attachment unit interface
B	bearer channel
BER	bit error ratio
B-ISDN	broadband ISDN
BITE	built-in test equipment

BNZS	bipolar with N-zero substitution
B8ZS	bipolar with 8-zero substitution
bps	bit(s) per second
BRI	basic rate interface
CATV	cable television
CBR	constant bit rate
CC	country code
CCIR	International Radio Consultation Committee
CCITT	International Telegraph and Telephone Consultative Committee
CELP	code excited linear prediction
CL	connectionless
CLNS	connectionless network service
CLP	cell loss priority
CLSF	connectionless service function
CLTS	connectionless transport service
CNR	combat net radio
COMPUSEC	computer security
COMSEC	communications security
CONS	connection-oriented network service
CONUS	Continental United States
COTS	connection-oriented transport service
CRC	cyclic redundancy check
CSMA/CD	carrier sense multiple access/collision detection
CSN	circuit-switched network

CTIA	Cellular Telecommunications Industry Association
CVSD	continuously variable slope delta
D	D-channel
DACS	Digital Access and Cross-Connect System
dc	direct current
DCA	Defense Communications Agency
DCAC	DCA circular
DCC	data country code
DCE	data circuit-terminating equipment
DCEC	Defense Communications Engineering Center
DCN	Data Communications Network
DCS	Defense Communications System
DDN	Defense Data Network
DIS	Defense Information System; Draft International Standard
DISA	Defense Information Systems Agency
DISP	Draft International Standardized Profile
DL	data link
DL SAP	data-link service access point
DoD	Department of Defense
DoDISS	Department of Defense Index of Specifications and Standards
DQDB	distributed queue dual-bus directory service
DSN	Defense Switched Network
DSP	domain specific part
DSS1	Digital Subscriber Signaling System Number 1

DTE	data terminal equipment
DTH	down-the-hill
DTMF	dual-tone multifrequency
DU	data unit
ECCM	electronic counter-countermeasures
EDI	Electronic Data Interchange
EFS	error-free second
EHF	extremely high frequency
EIA	Electronic Industries Association
ELF	extremely low frequency
EMC	electromagnetic compatibility
EMI	electromagnetic interference
EMSEC	emission security
ES	end system
ETSI	European Telecommunications Standards Institute
EW	electronic warfare
FADU	file access data unit
FAS	frame alignment signal
F-bit	frame bit
FDDI	Fiber Distributed Data Interface
FEC	forward error correction
FED-STD	federal standard
FIPS	Federal Information Processing Standard
FRM	frame relay mode
FSK	frequency-shift keying

FTAM	file transfer, access, and management
GFC	generic flow control
GHz	gigahertz
GNMP	Government Network Management Profile
GOSIP	Government Open Systems Interconnection Profile
GSA	General Services Administration
GSM	Special Mobile Group
H	high-rate channel
H <sub>0</sub>	384 kbps
H <sub>10</sub>	1472 kbps
HDB3	High density bipolar with a maximum of 3 consecutive zeros
HDLC	High-level Data Link Control
HDTV	High density television
HEC	header error check
HF	high frequency
HRC	hypothetical reference circuit
HRX	hypothetical reference connection
Hz	hertz
IAP	international access prefix
ICD	international code designator
IDI	initial domain identifier
IDP	initial domain part
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers

IP	internet protocol
IPMS	interpersonal message service
IRAC	Interdepartment Radio Advisory Committee
IS	intermediate system
ISB	independent sideband
ISDN	Integrated Services Digital Network
ISO	International Organization for Standardization
ISP	International Standardized Profile
ITU	International Telecommunications Union
IWG	interim working group
JCS	Joint Chiefs of Staff
JIEO	Joint Interoperability and Engineering Organization
JTC3A	Joint Tactical Command, Control and Communications Agency
JTIDS	Joint Tactical Information Distribution System
K	kilo
kbps	kilobit(s) per second
kHz	kilohertz
km	kilometer(s)
LAN	local area network
LAP	link access procedure
LAPB	LAP balanced
LAPD	LAP on the D channel
LF	low frequency
LLC	logical link control

LPC	linear predictive coding
LOS	line-of-sight
LSDU	link service data unit
MAC	media access control
MAN	metropolitan area network
MAU	medium attachment unit
Mbps	megabit(s) per second
MCEB	Military Communications-Electronics Board
MF	medium frequency
MHS	message-handling service
MHz	megahertz
MIB	management information base
MILDEP	military department
MIL-HDBK	military handbook
MIL-STD	military standard
MLPP	multi-level precedence and preemption
MMHS	Military Message Handling System
MMS	Military Messaging System
MSP	maintenance service provider
MTBF	mean time between failures
MTBPM	mean time between preventive maintenance
MTP	message transfer part
MTTR	mean time to repair
mW	milliwatt(s)
$n$	integer



NACSEM	National COMSEC Engineering Memorandum
NACSIM	National COMSEC Information Memorandum
NATO	North Atlantic Treaty Organization
NCC	network control center
NDI	nondevelopmental item
NE	network element
NI	nationality identifier
NIST	National Institute of Standards and Technology
NNI	network-node-interface
NRI	net radio interface
NSA	National Security Agency
NSAP	network service access point
NT	network terminal
NTIS	National Technical Information Service
OC	optical carrier level
ODA	Office Document Architecture
ODIF	Office Document Interchange Format
OS	operating system
OSI	Open Systems Interconnection
PBX	private branch exchange
PCM	pulse-code modulation
PDN	public data network
PDU	protocol data unit
PLP	packet layer protocol
PLRS	Position Location Reporting System

PLS	physical layer signaling
PMA	physical medium attachment
PSAP	presentation service access point
PSN	packet-switched network
PSTN	public switched telephone network
PT	payload type
PTS	personal telecommunications service
QOS	quality-of-service
R	radio
RES	reserved
rf	radio frequency
RFC	request for comment
RM	reference model
ROSE	remote operations service element
SATCOM	satellite communications
SCCP	signaling connection control part
SDH	synchronous digital hierarchy
SDNS	secure data network system
SDU	service data unit
SG	study group
SHF	super high frequency
SINGARS	Single-Channel Ground and Airborne Radio System
SMAF	Specific Management Application Function
SMDS	switched multi-megabit data service
SNE	subscriber network element

SOH	synchronous optical hierarchy
SONET	synchronous optical network
SP	security protocol
SSAP	session service access point
SSB	single sideband
SS7	Signaling System Number 7
STANAG	standardization agreement
STE-STE	signaling terminal-to-signaling terminal
STM	synchronous transport module
STS	synchronous transport signal
TADIL	tactical digital information link
TBD	to be determined
TC	transport connect
TCAP	transaction capabilities application part
TCP	transmission control protocol
TDMA	time-division multiple access
TE	terminal equipment
TELNET	telecommunications network
TEMPEST	compromising emanations
TIA	Telecommunications Industry Association
TMN	Telecommunications Management Network
TP	transport protocol
TP0	Transport Protocol class 0
TP1	Transport Protocol class 1
TP2	Transport Protocol class 2

TP3	Transport Protocol class 3
TP4	Transport Protocol class 4
TPDU	transport protocol data unit
TR	technical report
TRANSEC	transmission security
TRI-TAC	Tri-Service Tactical Communications
TSAP	transport service access point
TTY	teletypewriter
UHF	ultra high frequency
ULF	ultra low frequency
UMTS	universal mobile telecommunications system
UNI	user-to-network interface
UPT	universal personal telecommunications
USAT	Ultra Small Aperture Terminal
UTC	coordinated universal time
VBR	variable bit rate
VCC	virtual channel connection
VCI	virtual channel indicator
VPC	virtual path connection
VPI	virtual path indicator
VF	voice frequency
VHF	very high frequency
VLF	very low frequency
VOX	voice-operated transmit
VT	virtual terminal

WARC	World Administrative Radio Conference
WG	working group
2B1Q	Two binary, one quaternary